

M04: Hematology

Study Number: I10353

Test Compound: Benzo(a)pyrene

Date: 03 Sep 2024

DTTID: 103-005-002-000-1

CAS Number: 50-32-8

Time: 12:55:10 PM

Study Type: Immune screening

DTXSID: DTXSID2020139

Species/Strain: Mouse/B6C3F1/N

Females: Immunopath

	Treatment Groups								
	0 mg/kg	2 mg/kg	5 mg/kg	9 mg/kg	19 mg/kg	38 mg/kg	75 mg/kg	150 mg/kg	50 mg/kg CPS
Absolute counts									
Erythrocyte (x10 ⁶)	10.353 ± 0.092[s]**	10.376 ± 0.085[s]	10.135 ± 0.109[s]	10.188 ± 0.082[s]	9.825 ± 0.157[s]**	9.459 ± 0.143[s]**	9.700 ± 0.213[s]**	8.994 ± 0.072[s]**	9.244 ± 0.098[s]**
Hemoglobin (g/dL)	15.43 ± 0.10[s]**	15.29 ± 0.13[s]	15.05 ± 0.16[s]	15.36 ± 0.18[s]	15.06 ± 0.21[s]	14.29 ± 0.48[s]*	14.98 ± 0.28[s]*	13.73 ± 0.10[s]**	13.88 ± 0.12[s]**
Hematocrit (%)	50.81 ± 0.49[s]**	50.78 ± 0.40[s]	49.91 ± 0.54[s]	50.54 ± 0.46[s]	49.34 ± 0.84[s]	48.28 ± 0.55[s]*	48.91 ± 1.03[s]**	46.78 ± 0.36[s]**	46.04 ± 0.43[s]**
MCV (fL)	49.09 ± 0.23[s]**	48.95 ± 0.24[s]	49.25 ± 0.19[s]	49.59 ± 0.20[s]	50.23 ± 0.14[s]**	51.04 ± 0.27[s]**	50.46 ± 0.21[s]**	51.99 ± 0.18[s]**	49.79 ± 0.25[s]
MCH (pg)	14.91 ± 0.12[s]**	14.74 ± 0.06[s]	14.86 ± 0.07[s]	15.08 ± 0.10[s]	15.34 ± 0.08[s]*	15.10 ± 0.41[s]*	15.44 ± 0.13[s]*	15.26 ± 0.06[s]*	15.04 ± 0.09[s]
MCHC (g/dL)	30.36 ± 0.26[s]	30.10 ± 0.16[s]	30.18 ± 0.14[s]	30.40 ± 0.12[s]	30.53 ± 0.21[s]	29.59 ± 0.86[s]	30.59 ± 0.18[s]	29.39 ± 0.06[s]*	30.18 ± 0.15[s]
Platelets (x10 ³)	972.1 ± 36.8[s]**	1036.1 ± 28.8[s]	1013.9 ± 22.8[s]	990.8 ± 29.6[s]	1108.1 ± 44.4[s]	1027.1 ± 43.5[s]	940.1 ± 81.0[s]	1639.1 ± 62.4[s]**	1229.5 ± 31.6[s]**
Leukocyte (x10 ³)	4.63 ± 0.41[s]**	4.52 ± 0.38[s]	4.45 ± 0.28[s]	4.65 ± 0.41[s]	4.86 ± 0.38[s]	3.95 ± 0.59[s]	4.06 ± 0.33[s]	3.16 ± 0.33[s]*	1.44 ± 0.20[s]**
Reticulocytes (x10 ³)	297.96 ± 11.48[s]	307.30 ± 14.91[s]	315.46 ± 19.73[s]	287.95 ± 11.27[s]	317.91 ± 18.97[s]	289.81 ± 22.85[s]	310.84 ± 15.71[s]	256.31 ± 14.09[s]	75.23 ± 9.69[s]**
Relative counts									
Percent Reticulocytes (%)	2.878 ± 0.104[s]	2.964 ± 0.148[s]	3.113 ± 0.192[s]	2.829 ± 0.107[s]	3.243 ± 0.209[s]	3.049 ± 0.205[s]	3.199 ± 0.125[s]	2.851 ± 0.157[s]	0.814 ± 0.106[s]**

M04: Hematology

Study Number: I10353

Test Compound: Benzo(a)pyrene

Date: 03 Sep 2024

DTTID: 103-005-002-000-1

CAS Number: 50-32-8

Time: 12:55:10 PM

Study Type: Immune screening

DTXSID: DTXSID2020139

Species/Strain: Mouse/B6C3F1/N

LEGEND

Data are displayed as mean \pm SEM (N) unless otherwise noted.

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests. The positive control group (50 mg/kg CPS) was excluded from trend test.

Statistical analysis for the positive control group (50 mg/kg CPS) compared to the vehicle control group was performed using the Wilcoxon rank sum test.

Statistical significance for the control group indicates a significant trend test.

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group.

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

SEM = Standard Error of the Mean

MCV = Mean Corpuscular Volume; MCH = Mean Corpuscular Hemoglobin, MCHC = Mean Cell Hemoglobin Concentration

SD = Study Day

CPS = Cyclophosphamide

Females from the vehicle control and treatment groups were removed on SD 28.

** END OF REPORT **